FIG. 1

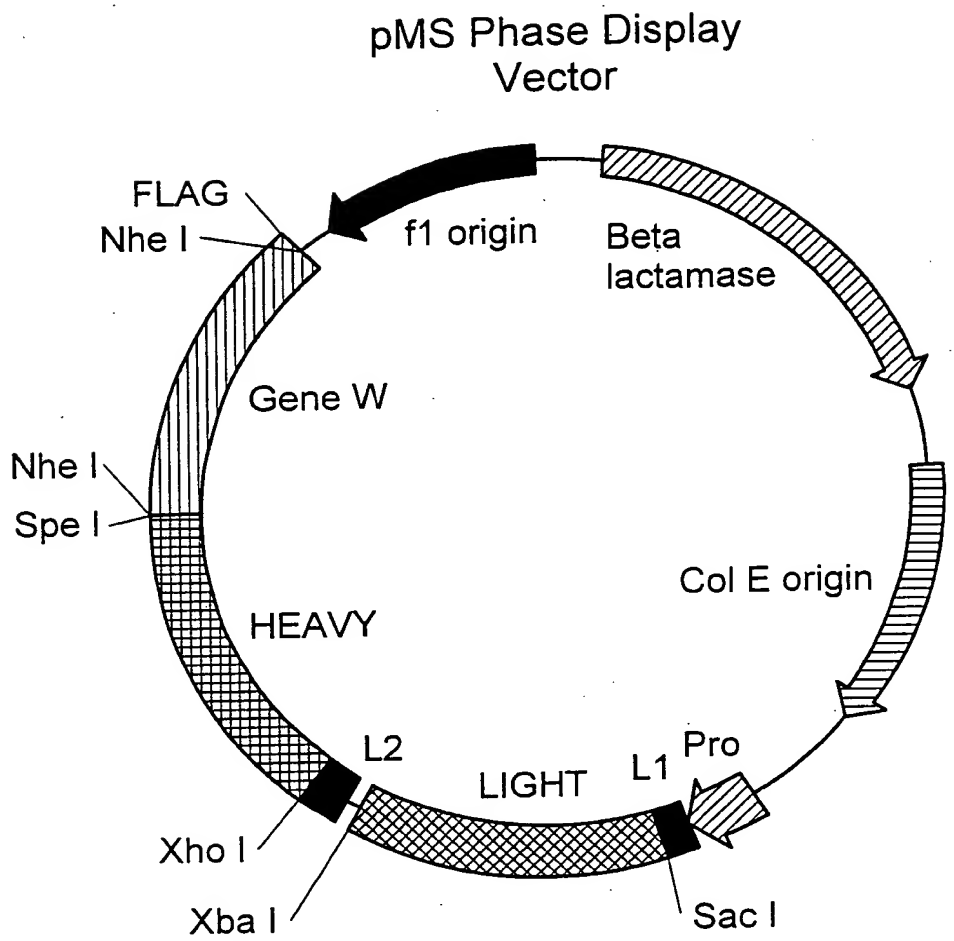
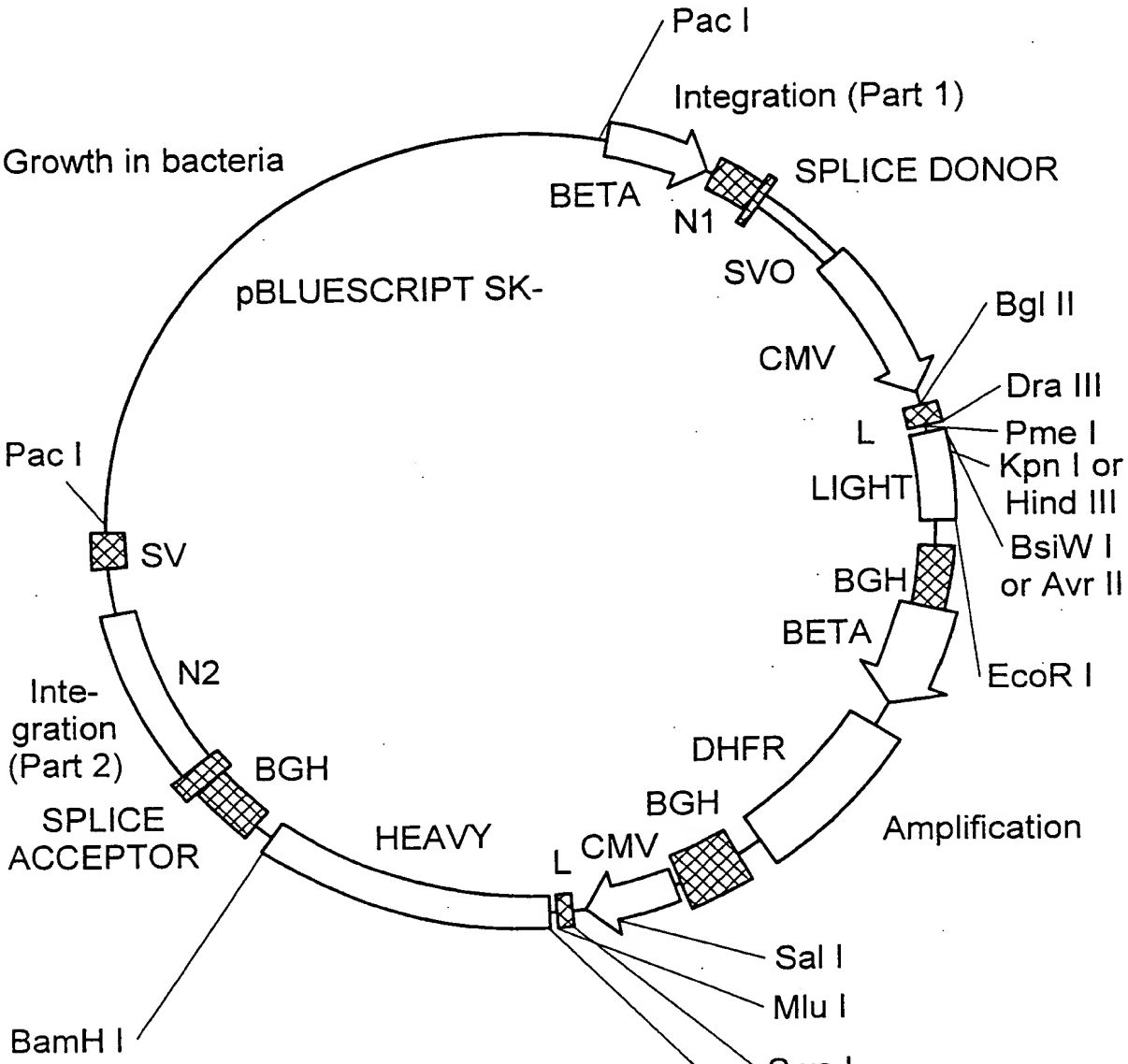


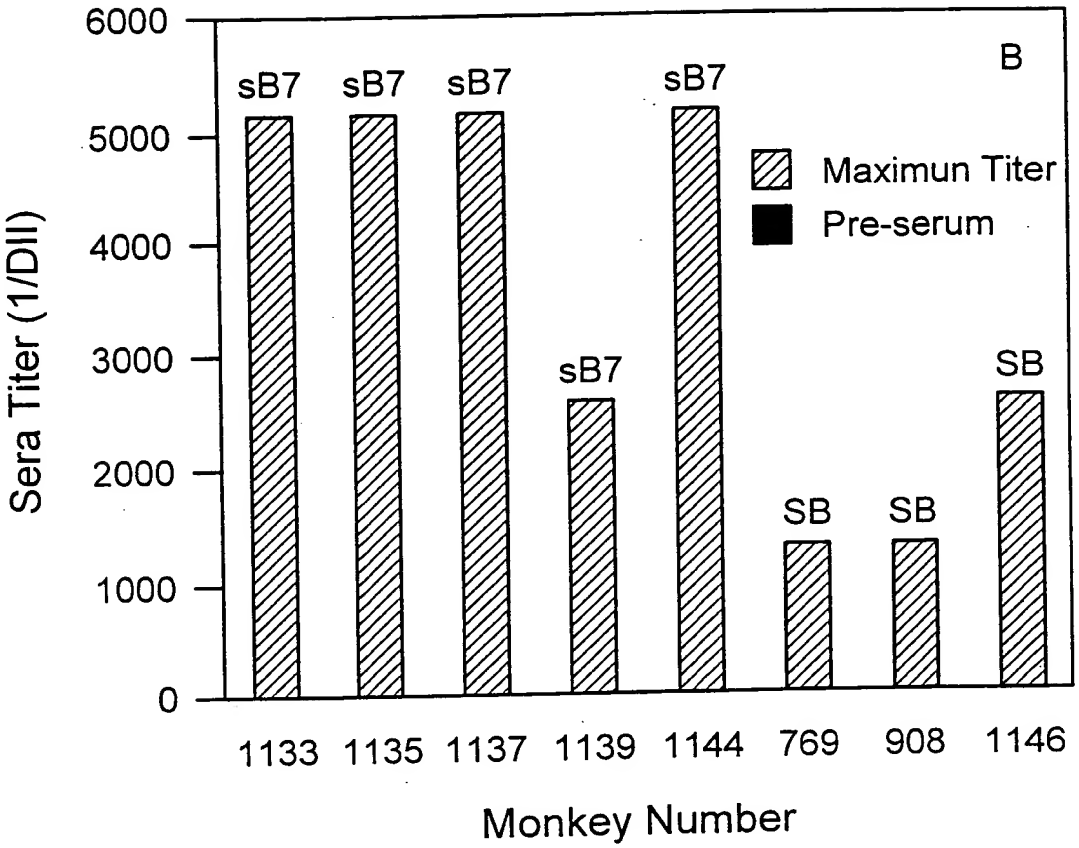
FIG. 2

NEOSPLA



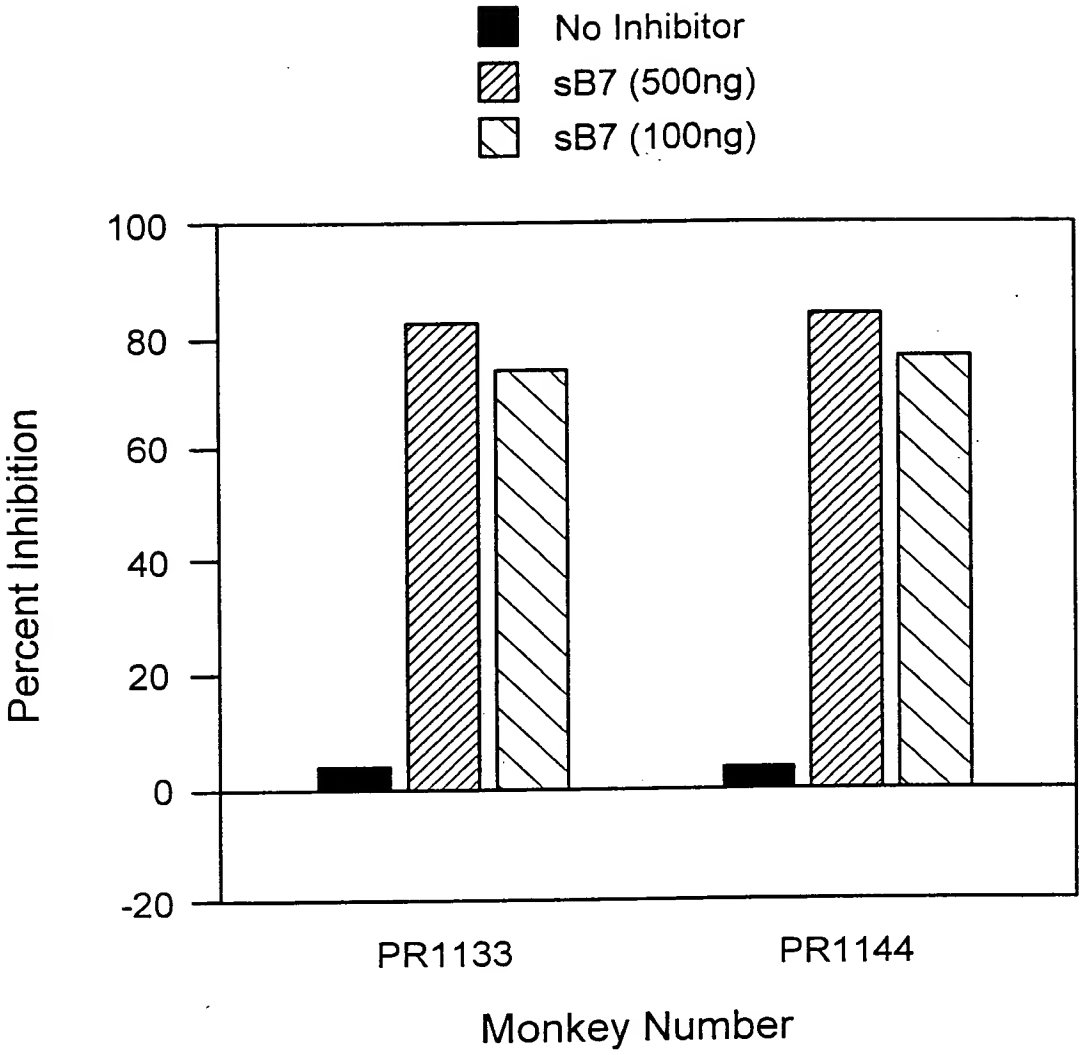
CMV = Cytomegalovirus promoter/enhancer
BETA = Mouse Beta globin major promoter
SVO = SV40 origin
BGH = Bovine growth hormone polyadenylation
SV = SV40 polyadenylation
N1 = Neomycin phosphotransferase exon 1
N2 = Neomycin phosphotransferase exon 2
LIGHT = Human immunonoglobulin kappa or lambda constant region
DHFR = Dihydrofolate Reductase
HEAVY = Human immunonoglobulin gamma 1 or gamma 4 PE constant region
L = Leader

FIG. 3



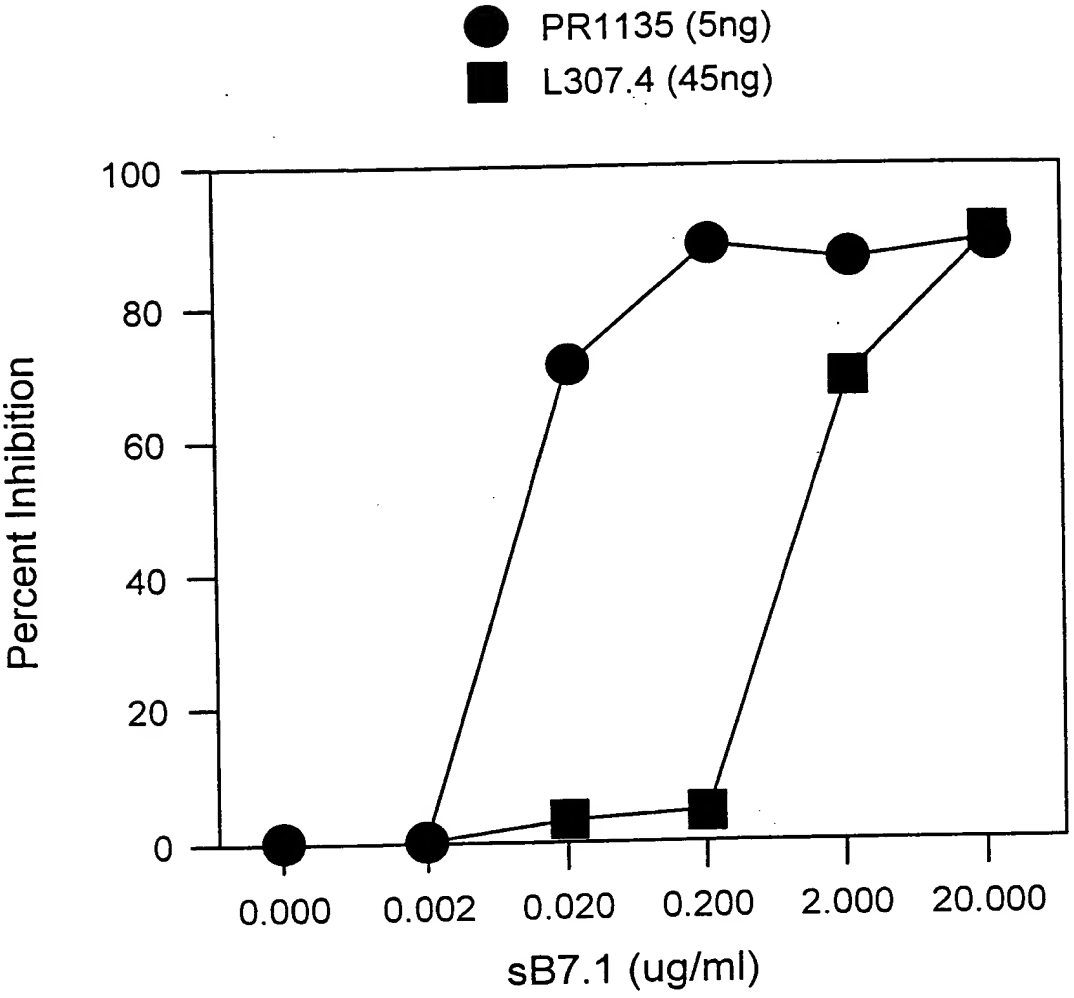
Monkey Serum Anti-B7.1 Titers Directed Against Cell Surface B7.1 on Transfected CHO Cells. Monkeys 1133-1139 were immunized with sB7.1. Monkeys 769-1146 were immunized with 50 million human B7 positive SB cells.

FIG. 4



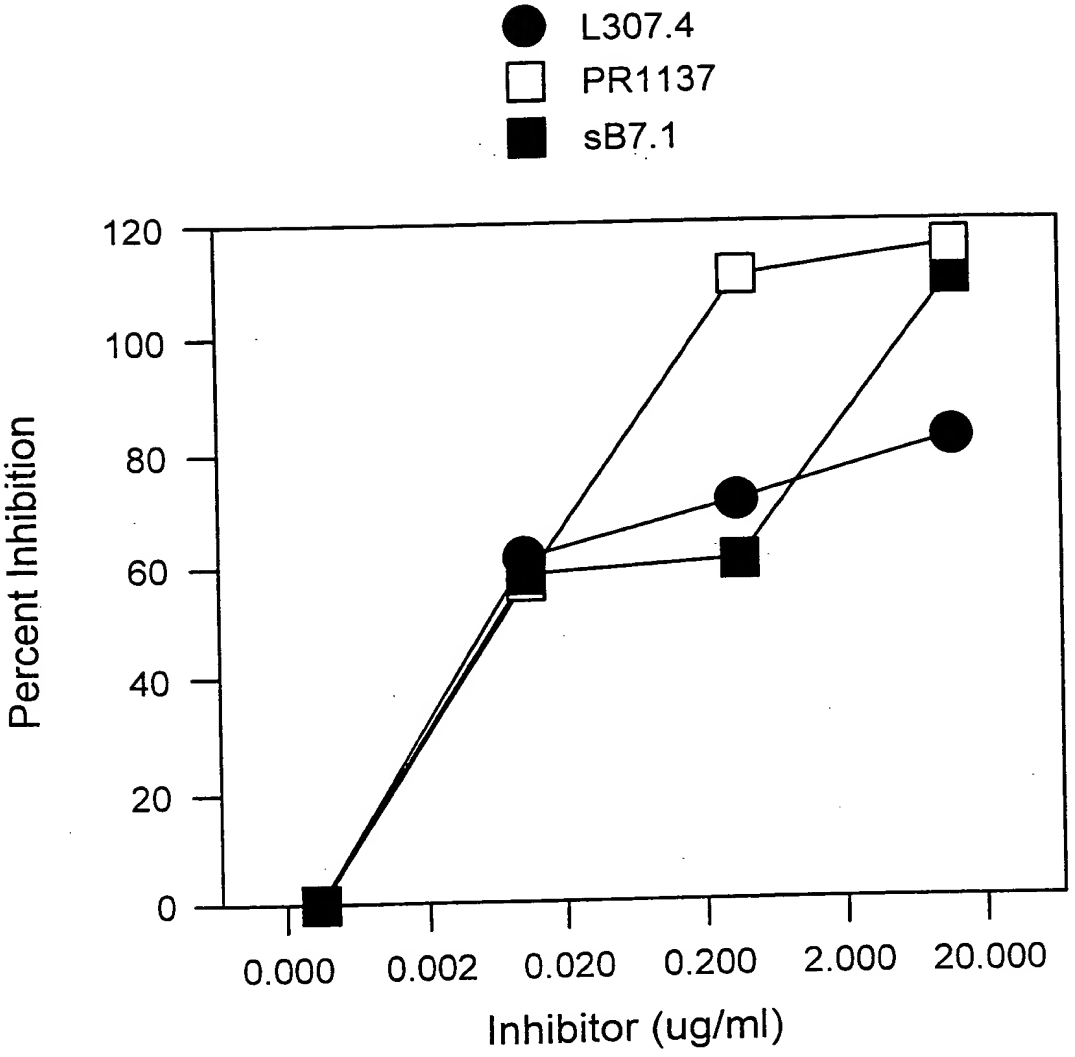
Inhibition of Radiolabeled sB7.1 Binding by sB7.1 Affinity-purified Monkey Antibodies in Presence of Unlabeled sB7 and MAb L307.4 Murine Anti-B7.1.

FIG. 5



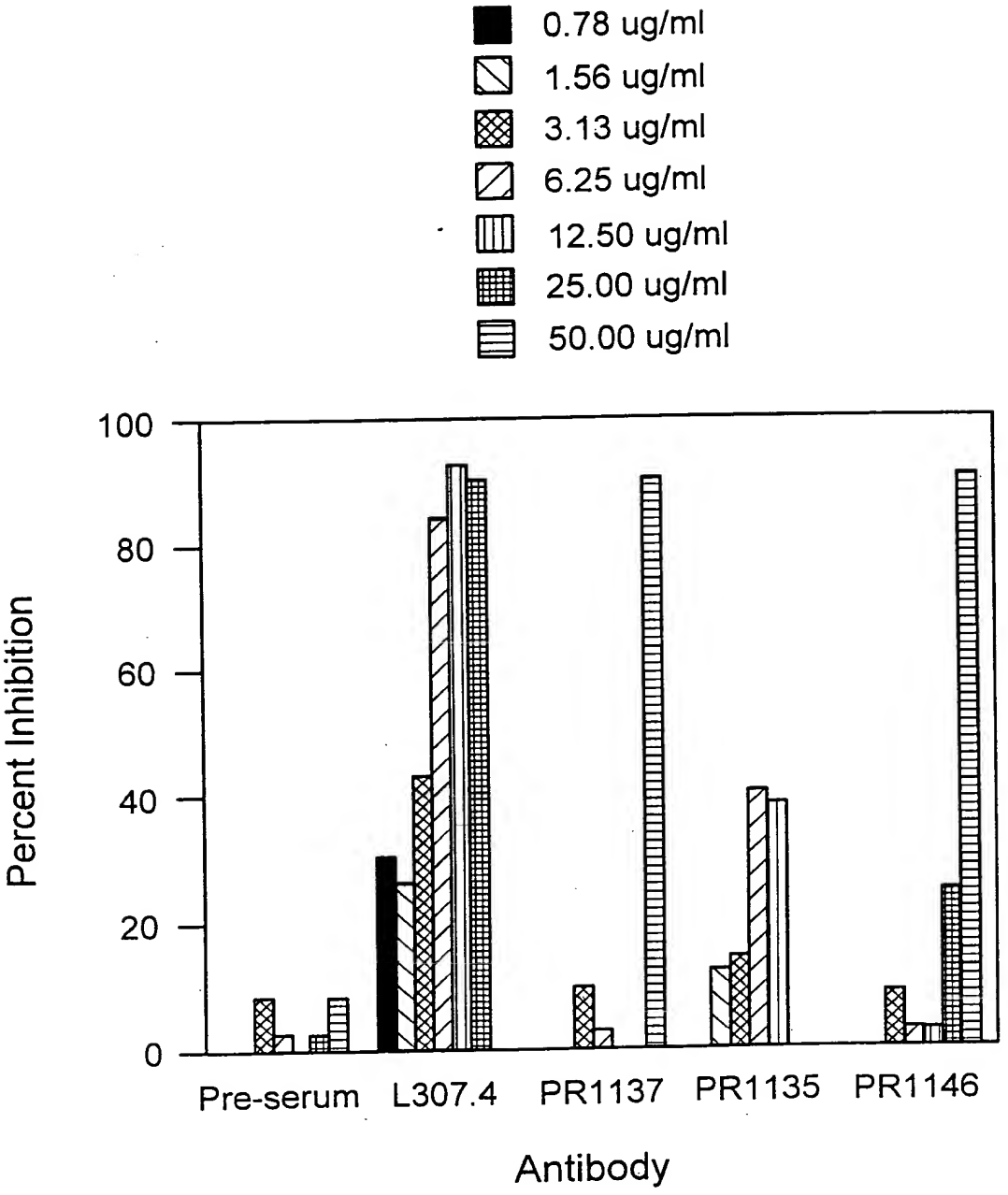
Inhibition of Binding of Radiolabeled Monkey 1135 and L307.4 Anti-B7.1 Antibodies to B7 Positive Human SB Cells by Competition With Affinity-Purified sB7.1.

FIG. 6



Inhibition of Radiolabeled B7-Ig Binding to Activated Human Peripheral Blood T Cells by Competing With Unlabeled sB7.1 Murine Anti-B7.1 (L307.4) and Monkey 1127 Affinity-purified Serum Antibodies.

FIG. 7



Inhibition of IL-2 Production in Mixed Lymphocyte Cultures by Anti-B7.1 Affinity-purified Monkey Serum Anibodies. Assays at some concentrations for certain monkeys were not done, due to limiting amounts of purified antibody.

LENGTH OF 7C10 LIGHT/PRIMATIZED: 705 bp; LISTED FROM: 1 TO: 705;
TRANSLATED FROM: 1 TO: 703 (ENTIRE REGION);
GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:11 AM

```
FRAME 1 M   R   V   P   A   Q   L   L   G   L   L   L   L
        ATG AGG GTC CCC GCT CAG CTC CTG GGG CTC CTG CTG CTC
                  9              18              27              36

W   L   P   G   A   R   C   A   Y   E   L   T   Q   P   P
TGG CTC CCA GGT GCA CGA TGT GCC TAT GAA CTG ACT CAG CCA CCC
      45              54              63              72              81

S   V   S   V   S   P   G   Q   T   A   R   I   T   C   G
TCG GTG TCA GTG TCC CCA GGA CAG ACG GCC AGG ATC ACC TGT GGG
      90              99              108             117             126

G   D   N   S   R   N   E   Y   V   H   W   Y   Q   Q   K
GGA GAC AAC AGT AGA AAT GAA TAT GTC CAC TGG TAC CAG CAG AAG
      135             144             153             162             171

P   A   R   A   P   I   L   V   I   Y   D   D   S   D   R
CCA GCG CGG GCC CCT ATA CTG GTC ATC TAT GAT GAT AGT GAC CGG
      180             189             198             207             216

P   S   G   I   P   E   R   F   S   G   S   K   S   G   N
CCC TCA GGG ATC CCT GAG CGA TTC TCT GGC TCC AAA TCA GGG AAC
      225             234             243             252             261

T   A   T   L   T   I   N   G   V   E   A   G   D   E   A
ACC GCC ACC CTG ACC ATC AAC GGG GTC GAG GCC GGG GAT GAG GCT
      270             279             288             297             306

D   Y   Y   C   Q   V   W   D   R   A   S   D   H   P   V
GAC TAT TAC TGT CAG GTG TGG GAC AGG GCT AGT GAT CAT CCG GTC
      315             324             333             342             351

F   G   G   G   T   R   V   T   V   L   G   Q   P   K   A
TTC GGA GGA GGG ACC CGG GTG ACC GTC CTA GGT CAG CCC AAG GCT
      360             369             378             387             396

A   P   S   V   T   L   F   P   P   S   S   E   E   L   Q
GCC CCC TCG GTC ACT CTG TTC CCG CCC TCC TCT GAG GAG CTT CAA
      405             414             423             432             441

A   N   K   A   T   L   V   C   L   I   S   D   F   Y   P
GCC AAC AAG GCC ACA CTG GTG TGT CTC ATA AGT GAC TTC TAC CCG
      450             459             468             477             486
```

FIG. 8A - 1

```
G   A   V   T   V   A   W   K   A   D   S   S   P   V   K
GGA GCC GTG ACA GTG GCC TGG AAG GCA GAT AGC AGC CCC GTC AAG
    495         504         513         522         531

A   G   V   E   T   T   T   P   S   K   Q   S   N   N   K
GCG GGA GTG GAG ACC ACC ACA CCC TCC AAA CAA AGC AAC AAC AAG
    540         549         558         567         576

Y   A   A   S   S   Y   L   S   L   T   P   E   Q   W   K
TAC GCG GCC AGC AGC TAC CTG AGC CTG ACG CCT GAG CAG TGG AAG
    585         594         603         612         621

S   H   R   S   Y   S   C   Q   V   T   H   E   G   S   T
TCC CAC AGA AGC TAC AGC TGC CAG GTC ACG CAT GAA GGG AGC ACC
    630         639         648         657         666

V   E   K   T   V   A   P   T   E   C   S   .
GTG GAG AAG ACA GTG GCC CCT ACA GAA TGT TCA TGA
    675         684         693         702
```

FIG. 8A - 2

LENGTH OF 7C10 HEAVY/PRIMATIZED: 1431 bp; LISTED FROM: 1 TO: 1431
TRANSLATED FROM: 1 TO: 1429 (ENTIRE REGION);
GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:11 AM

```
FRAME 1 M    K    H    L    W    F    F    L    L    L    V    A    A
        ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT
                  9              18             27             36

P    R    W    V    L    S    Q    V    K    L    Q    Q    W    G    E
CCC AGA TGG GTC CTG TCC CAG GTG AAG CTG CAG CAG TGG GGC GAA
      45             54             63             72             81

G    L    L    Q    P    S    E    T    L    S    R    T    C    V    V
GGA CTT CTG CAG CCT TCG GAG ACC CTG TCC CGC ACC TGC GTT GTC
      90             99             108            117            126

S    G    G    S    I    S    G    Y    Y    Y    W    T    W    I    R
TCT GGT GGC TCC ATC AGC GGT TAC TAC TAC TGG ACC TGG ATC CGC
      135            144            153            162            171

Q    T    P    G    R    G    L    E    W    I    G    H    I    Y    G
CAG ACC CCA GGG AGG GGA CTG GAG TGG ATT GGC CAT ATT TAT GGT
      180            189            198            207            216

N    G    A    T    T    N    Y    N    P    S    L    K    S    R    V
AAT GGT GCG ACC ACC AAC TAC AAT CCC TCC CTC AAG AGT CGA GTC
      225            234            243            252            261

T    I    S    K    D    T    S    K    N    Q    F    F    L    N    L
ACC ATT TCA AAA GAC ACG TCC AAG AAC CAG TTC TTC CTG AAC TTG
      270            279            288            297            306

N    S    V    T    D    A    D    T    A    V    Y    Y    C    A    R
AAT TCT GTG ACC GAC GCG GAC ACG GCC GTC TAT TAC TGT GCG AGA
      315            324            333            342            351

G    P    R    P    D    C    T    T    I    C    Y    G    G    W    V
GGC CCT CGC CCT GAT TGC ACA ACC ATT TGT TAT GGC GGC TGG GTC
      360            369            378            387            396

D    V    W    G    P    G    D    L    V    T    V    S    S    A    S
GAT GTC TGG GGC CCG GGA GAC CTG GTC ACC GTC TCC TCA GCT AGC
      405            414            423            432            441

T    K    G    P    S    V    F    P    L    A    P    S    S    K    S
ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC AAG AGC
      450            459            468            477            486
```

FIG. 8B - 1

```
T   S   G   G   T   A   A   L   G   C   L   V   K   D   Y
ACC TCT GGG GGC ACA GCG GCC CTG GGC TGC CTG GTC AAG GAC TAC
      495         504         513         522         531

F   P   E   P   V   T   V   S   W   N   S   G   A   L   T
TTC CCC GAA CCG GTG ACG GTG TCG TGG AAC TCA GGC GCC CTG ACC
      540         549         558         567         576

S   G   V   H   T   F   P   A   V   L   Q   S   S   G   L
AGC GGC GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCA GGA CTC
      585         594         603         612         621

Y   S   L   S   S   V   V   T   V   P   S   S   S   L   G
TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC
      630         639         648         657         666

T   Q   T   Y   I   C   N   V   N   H   K   P   S   N   T
ACC CAG ACC TAC ATC TGC AAC GTG AAT CAC AAG CCC AGC AAC ACC
      675         684         693         702         711

K   V   D   K   K   A   E   P   K   S   C   D   K   T   H
AAG GTG GAC AAG AAA GCA GAG CCC AAA TCT TGT GAC AAA ACT CAC
      720         729         738         747         756

T   C   P   P   C   P   A   P   E   L   L   G   G   P   S
ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA
      765         774         783         792         801

V   F   L   F   P   P   K   P   K   D   T   L   M   I   S
GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC
      810         819         828         837         846

R   T   P   E   V   T   C   V   V   V   D   V   S   H   E
CGG ACC CCT GAG GTC ACA TGC GTG GTG GTG GAC GTG AGC CAC GAA
      855         864         873         882         891

D   P   E   V   K   F   N   W   Y   V   D   G   V   E   V
GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG
      900         909         918         927         936

H   N   A   K   T   K   P   R   E   E   Q   Y   N   S   T
CAT AAT GCC AAG ACA AAG CCG CGG GAG GAG CAG TAC AAC AGC ACG
      945         954         963         972         981

Y   R   V   V   S   V   L   T   V   L   H   Q   D   W   L
TAC CGT GTG GTC AGC GTC CTC ACC GTC CTG CAC CAG GAC TGG CTG
      990         999         1008        1017        1026
```

FIG. 8B - 2

```
N   G   K   E   Y   K   C   K   V   S   N   K   A   L   P
AAT GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GCC CTC CCA
    1035        1044        1053        1062        1071

A   P   I   E   K   T   I   S   K   A   K   G   Q   P   R
GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA GGG CAG CCC CGA
    1080        1089        1098        1107        1116

E   P   Q   V   Y   T   L   P   P   S   R   D   E   L   T
GAA CCA CAG GTG TAC ACC CTG CCC CCA TCC CGG GAT GAG CTG ACC
    1125        1134        1143        1152        1161

K   N   Q   V   S   L   T   C   L   V   K   G   F   Y   P
AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC TAT CCC
    1170        1179        1188        1197        1206

S   D   I   A   V   E   W   E   S   N   G   Q   P   E   N
AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG CAG CCG GAG AAC
    1215        1224        1233        1242        1251

N   Y   K   T   T   P   P   V   L   D   S   D   G   S   F
AAC TAC AAG ACC ACG CCT CCC GTG CTG GAC TCC GAC GGC TCC TTC
    1260        1269        1278        1287        1296

F   L   Y   S   K   L   T   V   D   K   S   R   W   Q   Q
TTC CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG CAG CAG
    1305        1314        1323        1332        1341

G   N   V   F   S   C   S   V   M   H   E   A   L   H   N
GGG AAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT CTG CAC AAC
    1350        1359        1368        1377        1386

H   Y   T   Q   K   S   L   S   L   S   P   G   K   .
CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCG GGT AAA TGA
    1395        1404        1413        1422        1431
```

FIG. 8B - 3

LENGTH OF 7B6 LIGHT/PRIMATIZED: 720 bp; LISTED FROM: 1 TO: 720;
TRANSLATED FROM: 1 TO: 718 (ENTIRE REGION);
GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:10 AM

```
FRAME 1 M   S   L   P   A   Q   L   L   G   L   L   L   L
        ATG AGC CTC CCT GCT CAG CTC CTC GGGCTG CTA TTG CTC
                  9              18              27              36

C   V   P   G   S   S   G   E   V   V   M   T   Q   S   P
TGC GTC CCC GGGTCC AGT GGGGAA GTT GTGATG ACT CAG TCT CCA
    45              54              63              72              81

L   S   L   P   I   T   P   G   E   P   A   S   I   S   C
CTG TCC CTT CCC ATC ACA CCT GGA GAG CCG GCC TCC ATC TCC TGT
    90              99              108             117             126

R   S   S   Q   S   L   K   H   S   N   G   D   T   F   L
AGG TCT AGT CAA AGC CTT AAA CAC AGT AAT GGA GAC ACC TTC CTG
    135             144             153             162             171

S   W   Y   Q   Q   K   P   G   Q   P   P   R   L   L   I
AGT TGG TAT CAG CAG AAG CCA GGC CAA CCT CCA AGG CTC CTG ATT
    180             189             198             207             216

Y   K   V   S   N   R   D   S   G   V   P   D   R   F   S
TAT AAG GTT TCT AAC CGG GAC TCT GGGGTC CCA GAC AGA TTC AGC
    225             234             243             252             261

G   S   G   A   G   T   D   F   T   L   K   I   S   A   V
GGC AGT GGG GCA GGG ACA GAT TTC ACA CTG AAA ATC AGC GCA GTG
    270             279             288             297             306

E   A   E   D   V   G   V   Y   F   C   G   Q   G   T   R
GAG GCT GAA GAT GTT GGG GTT TAT TTC TGC GGG CAA GGT ACA AGG
    315             324             333             342             351

T   P   P   T   F   G   G   G   T   K   V   E   I   K   R
ACT CCT CCC ACT TTC GGC GGA GGG ACC AAG GTG GAA ATC AAA CGT
    360             369             378             387             396

T   V   A   A   P   S   V   F   I   F   P   P   S   D   E
ACG GTG GCT GCA CCA TCT GTC TTC ATC TTC CCG CCA TCT GAT GAG
    405             414             423             432             441

Q   L   K   S   G   T   A   S   V   V   C   L   L   N   N
CAG TTG AAA TCT GGA ACT GCC TCT GTT GTG TGC CTG CTG AAT AAC
    450             459             468             477             486
```

FIG. 9A - 1

```
F   Y   P   R   E   A   K   V   Q   W   K   V   D   N   A
TTC TAT CCC AGA GAG GCC AAA GTA CAG TGG AAG GTG GAT AAC GCC
    495         504         513         522         531

L   Q   S   G   N   S   Q   E   S   V   T   E   Q   D   S
CTC CAA TCG GGT AAC TCC CAG GAG AGT GTC ACA GAG CAG GAC AGC
    540         549         558         567         576

K   D   S   T   Y   S   L   S   S   T   L   T   L   S   K
AAG GAC AGC ACC TAC AGC CTC AGC AGC ACC CTG ACG CTG AGC AAA
    585         594         603         612         621

A   D   Y   E   K   H   K   V   Y   A   C   E   V   T   H
GCA GAC TAC GAG AAA CAC AAA GTC TAC GCC TGC GAA GTC ACC CAT
    630         639         648         657         666

Q   G   L   S   S   P   V   T   K   S   F   N   R   G   E
CAG GGC CTG AGC TCG CCC GTC ACA AAG AGC TTC AAC AGG GGA GAG
    675         684         693         702         711

C   .
TGT TGA
    720
```

FIG. 9A - 2

LENGTH OF 7B6 HEAVY/PRIMATIZED: 1437 bp; LISTED FROM: 1 TO: 1437
TRANSLATED FROM: 1 TO: 1435 (ENTIRE REGION);
GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:09 AM

```
FRAME 1 M    G    W    S    L    I    L    L    F    L    V    A    V
        ATG GGT TGG AGC CTC ATC TTG CTC TTC CTT GTC GCT GTT
                    9              18             27             36

        A    T    R    V    Q    C    E    V    Q    L    V    E    S    G    G
        GCT ACG CGT GTC CAG TGT GAG GTG CAA CTG GTG GAG TCT GGG GGA
             45             54             63             72             81

        G    L    V    Q    P    G    G    S    L    R    V    S    C    A    V
        GGC TTG GTC CAG CCT GGC GGG TCC CTG AGA GTC TCC TGT GCA GTC
             90             99             108            117            126

        S    G    F    T    F    S    D    H    Y    M    Y    W    F    R    Q
        TCT GGA TTC ACC TTC AGT GAC CAC TAC ATG TAT TGG TTC CGC CAG
             135            144            153            162            171

        A    P    G    K    G    P    E    W    V    G    F    I    R    N    K
        GCT CCA GGG AAG GGG CCG GAA TGG GTA GGT TTC ATT AGA AAC AAA
             180            189            198            207            216

        P    N    G    G    T    T    E    Y    A    A    S    V    K    D    R
        CCG AAC GGT GGG ACA ACA GAA TAC GCC GCG TCT GTG AAA GAC AGA
             225            234            243            252            261

        F    T    I    S    R    D    D    S    K    S    I    A    Y    L    Q
        TTC ACC ATC TCC AGA GAT GAT TCC AAA AGC ATC GCC TAT CTG CAA
             270            279            288            297            306

        M    S    S    L    K    I    E    D    T    A    V    Y    Y    C    T
        ATG AGC AGC CTG AAA ATC GAG GAC ACG GCC GTC TAT TAC TGT ACT
             315            324            333            342            351

        T    S    Y    I    S    H    C    R    G    G    V    C    Y    G    G
        ACA TCC TAC ATT TCA CAT TGT CGG GGT GGT GTC TGC TAT GGA GGT
             360            369            378            387            396

        Y    F    E    F    W    G    Q    G    A    L    V    T    V    S    S
        TAC TTC GAA TTC TGG GGC CAG GGC GCC CTG GTC ACC GTC TCC TCA
             405            414            423            432            441

        A    S    T    K    G    P    S    V    F    P    L    A    P    S    S
        GCT AGC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC
             450            459            468            477            486
```

FIG. 9B - 1

K S T S G G T A A L G C L V K
AAG AGC ACC TCT GGG GGC ACA GCG GCC CTG GGC TGC CTG GTC AAG
495 504 513 522 531

D Y F P E P V T V S W N S G A
GAC TAC TTC CCC GAA CCG GTG ACG GTG TCG TGG AAC TCA GGC GCC
540 549 558 567 576

L T S G V H T F P A V L Q S S
CTG ACC AGC GGC GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCA
585 594 603 612 621

G L Y S L S S V V T V P S S S
GGA CTC TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC
630 639 648 657 666

L G T Q T Y I C N V N H K P S
TTG GGC ACC CAG ACC TAC ATC TGC AAC GTG AAT CAC AAG CCC AGC
675 684 693 702 711

N T K V D K K A E P K S C D K
AAC ACC AAG GTG GAC AAG AAA GCA GAG CCC AAA TCT TGT GAC AAA
720 729 738 747 756

T H T C P P C P A P E L L G G
ACT CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG GGA
765 774 783 792 801

P S V F L F P P K P K D T L M
CCG TCA GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG
810 819 828 837 846

I S R T P E V T C V V V D V S
ATC TCC CGG ACC CCT GAG GTC ACA TGC GTG GTG GTG GAC GTG AGC
855 864 873 882 891

H E D P E V K F N W Y V D G V
CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG
900 909 918 927 936

E V H N A K T K P R E E Q Y N
GAG GTG CAT AAT GCC AAG ACA AAG CCG CGG GAG GAG CAG TAC AAC
945 954 963 972 981

S T Y R V V S V L T V L H Q D
AGC ACG TAC CGT GTG GTC AGC GTC CTC ACC GTC CTG CAC CAG GAC
990 999 1008 1017 1026

FIG. 9B - 2

W L N G K E Y K C K V S N K A
TGG CTG AAT GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GCC
1035 1044 1053 1062 1071

L P A P I E K T I S K A K G Q
CTC CCA GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA GGG CAG
1080 1089 1098 1107 1116

P R E P Q V Y T L P P S R D E
CCC CGA GAA CCA CAG GTG TAC ACC CTG CCC CCA TCC CGG GAT GAG
1125 1134 1143 1152 1161

L T K N Q V S L T C L V K G F
CTG ACC AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC
1170 1179 1188 1197 1206

Y P S D I A V E W E S N G Q P
TAT CCC AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG CAG CCG
1215 1224 1233 1242 1251

E N N Y K T T P P V L D S D G
GAG AAC AAC TAC AAG ACC ACG CCT CCC GTG CTG GAC TCC GAC GGC
1260 1269 1278 1287 1296

S F F L Y S K L T V D K S R W
TCC TTC TTC CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG
1305 1314 1323 1332 1341

Q Q G N V F S C S V M H E A L
CAG CAG GGG AAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT CTG
1350 1359 1368 1377 1386

H N H Y T Q K S L S L S P G K
CAC AAC CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCG GGT AAA
1395 1404 1413 1422 1431

TGA

FIG. 9B - 3

LENGTH OF 16C10 LAMBDA/PRIMATIZED: 711 bp; LISTED FROM: 1 TO: 711;
TRANSLATED FROM: 1 TO: 709 (ENTIRE REGION);
GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:08 AM

```
FRAME 1 M   R   V   P   A   Q   L   L   G   L   L   L   L
        ATG AGG GTC CCC GCT CAG CTC CTG GGG CTC CTG CTG CTC
                 9             18            27            36

W   L   P   G   A   R   C   E   S   V   L   T   Q   P   P
TGG CTC CCA GGT GCA CGA TGT GAG TCT GTC CTG ACA CAG CCG CCC
     45            54            63            72            81

S   V   S   G   A   P   G   Q   K   V   T   I   S   C   T
TCA GTG TCT GGG GCC CCA GGG CAG AAG GTC ACC ATC TCG TGC ACT
     90            99            108           117           126

G   S   T   S   N   I   G   G   Y   D   L   H   W   Y   Q
GGG AGC ACC TCC AAC ATT GGA GGT TAT GAT CTA CAT TGG TAC CAG
     135           144           153           162           171

Q   L   P   G   T   A   P   K   L   L   I   Y   D   I   N
CAG CTC CCA GGA ACG GCC CCC AAA CTC CTC ATC TAT GAC ATT AAC
     180           189           198           207           216

K   R   P   S   G   I   S   D   R   F   S   G   S   K   S
AAG CGA CCC TCA GGA ATT TCT GAC CGA TTC TCT GGC TCC AAG TCT
     225           234           243           252           261

G   T   A   A   S   L   A   I   T   G   L   Q   T   E   D
GGT ACC GCG GCC TCC CTG GCC ATC ACT GGG CTC CAG ACT GAG GAT
     270           279           288           297           306

E   A   D   Y   Y   C   Q   S   Y   D   S   S   L   N   A
GAG GCT GAT TAT TAC TGC CAG TCC TAT GAC AGC AGC CTG AAT GCT
     315           324           333           342           351

Q   V   F   G   G   G   T   R   L   T   V   L   G   Q   P
CAG GTA TTC GGA GGA GGG ACC CGG CTG ACC GTC CTA GGT CAG CCC
     360           369           378           387           396

K   A   A   P   S   V   T   L   F   P   P   S   S   E   E
AAG GCT GCC CCC TCG GTC ACT CTG TTC CCG CCC TCC TCT GAG GAG
     405           414           423           432           441

L   Q   A   N   K   A   T   L   V   C   L   I   S   D   F
CTT CAA GCC AAC AAG GCC ACA CTG GTG TGT CTC ATA AGT GAC TTC
     450           459           468           477           486
```

FIG. 10A - 1

```
Y   P   G   A   V   T   V   A   W   K   A   D   S   S   P
TAC CCG GGA GCC GTG ACA GTG GCC TGG AAG GCA GAT AGC AGC CCC
    495         504         513         522         531

V   K   A   G   V   E   T   T   T   P   S   K   Q   S   N
GTC AAG GCG GGA GTG GAG ACC ACC ACA CCC TCC AAA CAA AGC AAC
    540         549         558         567         576

N   K   Y   A   A   S   S   Y   L   S   L   T   P   E   Q
AAC AAG TAC GCG GCC AGC AGC TAC CTG AGC CTG ACG CCT GAG CAG
    585         594         603         612         621

W   K   S   H   R   S   Y   S   C   Q   V   T   H   E   G
TGG AAG TCC CAC AGA AGC TAC AGC TGC CAG GTC ACG CAT GAA GGG
    630         639         648         657         666

S   T   V   E   K   T   V   A   P   T   E   C   S   .
AGC ACC GTG GAG AAG ACA GTG GCC CCT ACA GAA TGT TCA TGA
    675         684         693         702         711
```

FIG. 10A - 2

LENGTH OF 16C10 HEAVY/PRIMATIZED: 1431 bp; LISTED FROM: 1 TO: 1431;
TRANSLATED FROM: 1 TO: 1429 (ENTIRE REGION);
GENETIC CODE USED: UNIVERSAL; FRI, MAY 26, 1995 11:08 AM

```
FRAME 1 M   K   H   L   W   F   F   L   L   L   V   A   A
        ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT
                    9               18              27              36

P   R   W   V   L   S   Q   V   Q   L   Q   E   S   G   P
CCC AGA TGG GTC CTG TCC CAG GTG CAG CTG CAG GAG TCG GGC CCA
        45              54              63              72              81

G   L   V   K   P   S   E   T   L   S   L   T   C   A   V
GGA CTG GTG AAG CCT TCG GAG ACC CTG TCC CTC ACC TGC GCT GTC
        90              99              108             117             126

S   G   G   S   I   S   G   G   Y   G   W   G   W   I   R
TCT GGT GGC TCC ATC AGC GGT GGT TAT GGC TGG GGC TGG ATC CGC
        135             144             153             162             171

Q   P   P   G   K   G   L   E   W   I   G   S   F   Y   S
CAG CCC CCA GGG AAG GGG CTG GAG TGG ATT GGG AGT TTC TAT AGT
        180             189             198             207             216

S   S   G   N   T   Y   Y   N   P   S   L   K   S   Q   V
AGT AGT GGG AAC ACC TAC TAC AAC CCC TCC CTC AAG AGT CAA GTC
        225             234             243             252             261

T   I   S   T   D   T   S   K   N   Q   F   S   L   K   L
ACC ATT TCA ACA GAC ACG TCC AAG AAC CAG TTC TCC CTG AAG CTG
        270             279             288             297             306

N   S   M   T   A   A   D   T   A   V   Y   Y   C   V   R
AAC TCT ATG ACC GCC GCG GAC ACG GCC GTG TAT TAC TGT GTG AGA
        315             324             333             342             351

D   R   L   F   S   V   V   G   M   V   Y   N   N   W   F
GAT CGT CTT TTT TCA GTT GTT GGA ATG GTT TAC AAC AAC TGG TTC
        360             369             378             387             396

D   V   W   G   P   G   V   L   V   T   V   S   S   A   S
GAT GTC TGG GGC CCG GGA GTC CTG GTC ACC GTC TCC TCA GCT AGC
        405             414             423             432             441

T   K   G   P   S   V   F   P   L   A   P   S   S   K   S
ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC AAG AGC
        450             459             468             477             486
```

FIG. 10B - 1

```
T   S   G   G   T   A   A   L   G   C   L   V   K   D   Y
ACC TCT GGG GGC ACA GCG GCC CTG GGC TGC CTG GTC AAG GAC TAC
        495         504         513         522         531

F   P   E   P   V   T   V   S   W   N   S   G   A   L   T
TTC CCC GAA CCG GTG ACG GTG TCG TGG AAC TCA GGC GCC CTG ACC
        540         549         558         567         576

S   G   V   H   T   F   P   A   V   L   Q   S   S   G   L
AGC GGC GTG CAC ACC TTC CCG GCT GTC CTA GAC TCC TCA GGA CTC
        585         594         603         612         621

Y   S   L   S   S   V   V   T   V   P   S   S   S   L   G
TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC
        630         639         648         657         666

T   Q   T   Y   I   C   N   V   N   H   K   P   S   N   T
ACC CAG ACC TAC ATC TGC AAC GTG AAT CAC ACA TGC CCA AAC ACC
        675         684         693         702         711

K   V   D   K   K   A   E   P   K   S   C   D   K   T   H
AAG GTG GAC AAG AAA GCA GAG CCC AAA TCT TGT GAC AAA ACT CAC
        720         729         738         747         756

T   C   P   P   C   P   A   P   E   L   L   G   G   P   S
ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA
        765         774         783         792         801

V   F   L   F   P   P   K   P   K   D   T   L   M   I   S
GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC
        810         819         828         837         846

R   T   P   E   V   T   C   V   V   V   D   V   S   H   E
CGG ACC CCT GAG GTC ACA TGC GTG GTG GTG GAC GTG AGC CAC GAA
        855         864         873         882         891

D   P   E   V   K   F   N   W   Y   V   D   G   V   E   V
GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG
        900         909         918         927         936

H   N   A   K   T   K   P   R   E   E   Q   Y   N   S   T
CAT AAT GCC AAG ACA AAG CCG CGG GAG GAG CAG TAC AAC AGC ACG
        945         954         963         972         981

Y   R   V   V   S   V   L   T   V   L   H   Q   D   W   L
TAC CGT GTG GTC AGC GTC CTC ACC GTC CTG CAC CAG GAC TGG CTG
        990         999         1008        1017        1026
```

FIG. 10B - 2

```
N   G   K   E   Y   K   C   K   V   S   N   K   A   L   P
AAT GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GCC CTC CCA
    1035        1044        1053        1062        1071

A   P   I   E   K   T   I   S   K   A   K   G   Q   P   R
GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA GCC AAA CCC CGA
    1080        1089        1098        1107        1116

E   P   Q   V   Y   T   L   P   P   S   R   D   E   L   T
GAA CCA CAG GTG TAC ACC CTG CCC CCA TCC CGG GAT GAG CTG ACC
    1125        1134        1143        1152        1161

K   N   Q   V   S   L   T   C   L   V   K   G   F   Y   P
AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC TAT CCC
    1170        1179        1188        1197        1206

S   D   I   A   V   E   W   E   S   N   G   Q   P   E   N
AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG CAG CCG GAG AAC
    1215        1224        1233        1242        1251

N   Y   K   T   T   P   P   V   L   D   S   D   G   S   F
AAC TAC AAG ACC ACG CCT CCC GTG CTG GAC TCC GAC TCC TCC TTC
    1260        1269        1278        1287        1296

F   L   Y   S   K   L   T   V   D   K   S   R   W   Q   Q
TTC CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG CAG CAG
    1305        1314        1323        1332        1341

G   N   V   F   S   C   S   V   M   H   E   A   L   H   N
GGG AAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT CTG CAC AAC
    1350        1359        1368        1377        1386

H   Y   T   Q   K   S   L   S   L   S   P   G   K   .
CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCG GGT AAA TGA
    1395        1404        1413        1422        1431
```

FIG. 10B - 3